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Date March 23, 2008

Total Pages of Results 43 (incl. cover)

☒ Search only in Chemistry and Materials Science.

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The "AND" operator is unnecessary -- we include all search terms by default. [\[details\]](#)
"dipping" (and any subsequent words) was ignored because we limit queries to 32 words.

Scholar All articles - [Recent articles](#) Results 1 - 100 of about 395 for (metal OR metallic) AND (surface OR film OR layer

All Results

[S Clark](#)

[J Homola](#)

[H Shin](#)

[C Scotchford](#)

[R Freeman](#)

Did you mean: (metal OR metallic) AND (surface OR film OR layer) AND (modify OR modifying OR modification OR modified OR *modified* OR change OR changed OR changes OR changing OR remove OR removed OR removing OR ablating OR ablation) AND ("SAM" OR self-assemble OR self-assembly OR self-assembling) AND (sulfur OR thiol) AND (pattern OR patterning) AND (dip OR dipped OR dipping OR immerse OR immersed OR immersing OR immersion)

[Engineering the Microfabrication of Layer-by-Layer Thin Films - all 2 versions »](#)

SL Clark, PT Hammond - Advanced Materials, 1998 - doi.wiley.com

... be selectively attached to a metal or metal oxide surface ... (Film growth normal to the surface was 70, 80 ... a deep, narrow canyon over the EG surface that persisted ...

[Cited by 41](#) - [Related Articles](#) - [Web Search](#)

[\[PDF\] Characterization of Ligand-Functionalized Microcantilevers for Metal Ion Sensing - all 4 versions »](#)

P Dutta, PJ Chapman, PG Datskos, MJ Sepaniak - Sens. Actuators, B, 1996 - mnl.ornl.gov

... group for binding to the metallic MC surface on ... phases and interacting with aqueous metal ion electrolyte ... while our fabricated dealloyed surface is positively ...

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[Surface plasmon resonance sensors: review - all 3 versions »](#)

J Homola, SS Yee, G Gauglitz - Sensors & Actuators: B. Chemical, 1999 - Elsevier

... of biomolecules directly on the metal surface is not ... monolayer immobilized onto a gold film with biotin [91 ... due to the hydrophobic character of the surface. ...

[Cited by 526](#) - [Related Articles](#) - [Web Search](#)

[... OF TiO₂ THIN FILMS ON ORGANIC SELF-ASSEMBLED MONOLAYERS: PART I. FILM FORMATION FROM AQUEOUS ... - all 5 versions »](#)

H Shin, RJ Collins, MR De Guire, AH Heuer, CN ... - Journal of Materials Research, 1995 - mrs.org

... via a crosslinked siloxane network to the metal oxide (hydroxide ... out by exposure of the thioacetate surface to a ... the abrupt interface between the film and SAM ...

[Cited by 90](#) - [Related Articles](#) - [Web Search](#)

[NANOPATTERNING OF CONDUCTING POLYMERS AND CONDUCTIVITY MEASUREMENTS WITH NANOMETER-SPACED ELECTRODES](#)

SHM PERSSON, P DYREKLEV, O INGANAS - Atomic and Molecular Wires, 1997 - books.google.com

... in a large tunnel junction instead of a metallic contact. ... contact between the two layers of evaporated metal and an insulating SAM only on the gold surface. ...

[Related Articles](#) - [Web Search](#)

[SPR biosensors: simultaneously removing thermal and bulk-composition effects - all 4 versions »](#)

MJ O'Brien II, SRJ Brueck, VH Perez-Luna, LM ... - Biosensors and Bioelectronics, 1999 - Elsevier

... polarizing cube beam-splitter and a metallic mirror ... to affix analyte receptors to the metal film, the TAB ... An optical-temperature sensor using surface plasmons ...

[Cited by 6](#) - [Related Articles](#) - [Web Search](#)

[... human osteoblast-like cells on alkanethiol on gold self-assembled monolayers: The effect of surface ... - all 3 versions »](#)

CA Scotchford, E Cooper, GJ Leggett, S Downes - Mater Res, 1998 - doi.wiley.com

... biometals, or coating the metal component with ... deposition of the gold film, samples were ... LE Ericson, "Bone response to surface-modified titanium implants ...

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[... polymer multilayer fabrication by controlled adhesion of polyelectrolytes to plasma-modified ... - all 2 versions »](#)

TG Vargo, JM Calvert, KJ Wynne, JK Avliyanov, AG ... - Supramolecular Science, 1995 - Elsevier

... of modified and unmodified FEP, nickel metal masks were ... spectrum of 17-layer PANI/PSS multilayer film on a ... decreases from 115° for an unmodified surface to 55 ...

[Cited by 16 - Related Articles - Web Search](#)

[Adsorption of Stearic Acid on Hydrophobic Surface: FT-IR Spectroscopic Study](#)

DA Mirzakhajev, SJ Ahn, K Kim - Bull. Korean. Chem. Soc, 1996 - newjournal.kcsnet.or.kr

... of organic molecules on non-metallic hydrophobic surface. ... Holding the surface pressure at 30 mN/m ... that adsorption occurs by forming metal-sulfur bonds after ...

[Related Articles - Cached - Web Search](#)

[Sulfur containing lignin modified alkaline earth treated phenolic impregnating resins for core ... - all 2 versions »](#)

MP Seidel, TJ Fuller - US Patent 4,476,193, 1984 - Google Patents

... were made using sulfur containing lignin modified, alkaline-earth ... 6, having a print sheet layer laminated thereto ... of claim 1, where the alkali-metal compound of ...

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... It is known that only metallic Pd 0 can act as ... This means that prior to ELD of the metal (in our ... measurements to estimate the size and the surface density of ...

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[Self-Assembled Metal Colloid Monolayers: An Approach to SERS Substrates - all 7 versions »](#)

RG Freeman, KC Grabar, KJ Allison, RM Bright, JA ... - Science, 1995 - sciencemag.org

... and are not embedded with- in, the organic film. ... ward the solution) and the particle surface are necessary ... that the sur- face of immobilized metal particles is ...

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[Thin microstructured polymer films by surface-directed film formation - all 5 versions »](#)

HG Braun, E Meyer - Thin Solid Films, 1999 - Elsevier

... 12. Structured polystyrene film formed by controlled dewetting of ... the partial covering of metal surfaces can ... that the study of surface-directed microstructures ...

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[Oligonucleotide hybridization observed by surface plasmon optical techniques - all 2 versions »](#)

D Piscevic, R Lawall, M Veith, M Liley, Y Okahata, ... - Applied Surface Science, 1995 - Elsevier

... performed with silver as the metal layer because its ... the dispersion curve any thin-film coating results ... 9. Surface plasmon icroic images taken sjutaneoly from ...

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[THE MODIFICATION OF SEMICONDUCTOR SURFACES BY MOLECULAR SELF-ASSEMBLY](#)

DL Allara - Atomic and Nanometer-Scale Modification of Materials, 1993 - books.google.com

... substrates for cell growth studies [16], chemically enhanced metal atom nucleation ... SAMs to promote adhesion of a polymer film used on a gold surface as a ...

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BC Bunker, PC Rieke, BJ Tarasevich, AA Campbell, ... - Science, 1994 - sciencemag.org
... such as laser ablation and metal-organic chemical ... is usually done after the film is deposited ... article is to demonstrate how surface functionalization routes ...
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Passivation effect of (nh4) 2sx treatment on gaas surface before photo-resist and o2 processes - all 2 versions »

KS Suh, JL Lee, HH Park, CH Kim, J Lee, KS Nam - Materials Science & Engineering B, 1996 - Elsevier
... such as oxygen atoms and metallic impurities to ... when applied to a fabricated metal semiconductor field ... bonds resist the oxidation of the surface and oxidation ...
Related Articles - Web Search

[PDF] New Substrates for Polymer Cationization with Time-of-Flight Secondary Ion Mass Spectrometry - all 4 versions »

R Michel, R Luginbühl, DJ Graham, BD Ratner - Anal. Chem, 1985 - textorgroup.ch
... angles suggests a similar double-layer structure as ... as will be shown later, the metal ions adsorbed ... assuming little thallium adsorption onto the gold surface. ...
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New directions in self-assembly: materials synthesis over 'all'length scales - all 4 versions »

I Soten, GA Ozin - Current Opinion in Colloid & Interface Science, 1999 - Elsevier
... Conductivity measurements revealed the metallic nature of the ... materials based upon organic/silica, metal/silica, enzyme ... that starts at the surface of the ...
Cited by 31 - Related Articles - Web Search

Spectroscopic and surface-analytical characterization of self-assembled layers on Au - all 3 versions »

S Mittler-Neher, J Spinke, M Liley, G Nelles, M ... - Biosensors and Bioelectronics, 1995 - Elsevier
... and with a dielectric layer on top of the metal, respectively, with ... binding was a function of the film composition ... SURFACE FUNCTIONALIZATION WITH CYCLODEXTRINS ...
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Thin film formulations of substituted phthalocyanines - all 2 versions »

MJ Cook - Journal of Materials Chemistry, 1996 - rsc.org
... v) 150 °C; (vi) LiOPe/PeOH, followed by metal insertion as ... pressure starts to rise at a higher surface area per molecule and above 25 mN m⁻¹ the film collapses ...
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A Fujita, KO Hwang, AL Bramblett, BD Ratner, JW ... - Biopolymers (Peptide Science), 1998 - doi.wiley.com
... to enrich the binding site for a particular metal ion on ... obtained on a Surface Science Instruments X-Probe or S- ... The porphyrin film was then dissolved in a mini ...
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... of polybithiophene films on titanium electrodes: bare and modified with aromatic and aliphatic ... - all 4 versions »

Z Mekhalif, J Delhalle, P Lang, F Garnier, JJ ... - Synthetic Metals, 1998 - Elsevier
... 162 eV associated with sulfur bonded to metallic Ti atoms ... Unlike the bare surface (solid line) the I(t ... exhibit the current drop characteristic of metal oxidation ...
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Supramolecular thin films via the Langmuir-Blodgett-Kuhn (LBK) technique - all 2 versions »

R Advincula, W Knoll - Colloids and Surfaces A: Physicochemical and Engineering ..., 1997 - Elsevier
... For gold-layer coated substrates, metal vapor deposition ... allowed the possibility of surface charge modification between monolayer film deposition. ...
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...) trimethylplatinum and low-temperature organometallic chemical vapor deposition of

platinum metal - all 2 versions »

Z Xue, MJ Strouse, DK Shuh, CB Knobler, HD Kaesz, ... - Journal of the American Chemical Society, 1989 - pubs.acs.org

... For deposition of metallic platinum, a stream of Ar gas ... 120 °C, becomes coated with a film of highly ... Na- (MeCp) by reaction with sodium metal in tetrahydrofuran ...

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Direct alpha to X phase conversion of metal-free phthalocyanine - all 3 versions »

CH Griffiths, MS Walker - US Patent 3,932,180, 1976 - Google Patents

... can then be fused to the surface of the ... in Example I. EXAMPLE XII The X metal-free phthalocyanine ... and a 10 mi -cron thick aluminum film vacuum deposited ...

[Cited by 2](#) - [Related Articles](#) - [Web Search](#)

Intermolecular electrical conductance in self-assembled monolayers - all 4 versions »

A Inoue, W Mizutani, T Ishida, H Tokumoto - Applied Physics A: Materials Science & Processing, 1998 - Springer

... The metal- patterned substrate was immersed in a 2mM OTS solution ... 500 nm was evaporated on the cleaned surface of a ... by cleaving the GaAs with the Ag film in a ...

[Cited by 1](#) - [Related Articles](#) - [Web Search](#)

Hydrogenation of Aromatics in Diesel Fuels on Pt/MCM-41 Catalysts - all 8 versions »

A Corma, A Martínez, V Martínez-Soria - Journal of Catalysis, 1997 - Elsevier

... The higher surface area and better Pt dispersion ... the hydrogenation activity with the metal disper- sion ... or what is equivalent, with the metallic area calculated ...

[Cited by 113](#) - [Related Articles](#) - [Web Search](#)

Method of Evaluating Metal Cleaners

S Spring, HI Forman, LF Peale - Industrial & Engineering Chemistry Analytical Edition, 1946 - pubs.acs.org

... use with an alkaline silicate plus a synthetic deter- gent and rinsed with water until a complete water film is sus ... The surface condition of metal panels has ...

[Related Articles](#) - [Web Search](#)

Emerging techniques for investigating molecular interactions at lipid membranes - all 4 versions »

S Heyse, T Stora, E Schmid, JH Lakey, H Vogel - BBA-Reviews on Biomembranes, 1998 - Elsevier

... filling the remaining regions of bare metal with a ... buffer, decoupling the lipid layer from the solid surface. ... ensures the provision of a water film between the ...

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[PDF] Self Assembled Monolayers - all 2 versions »

T Pradeep - RESONANCE, 1999 - ias.ac.in

... applied to the study of a film arranged on a ... the molecules will not migrate from one surface to another ... the development of molecularly thin metal/ oxide layers ...

[Related Articles](#) - [View as HTML](#) - [Web Search](#)

Metal Clusters and Colloids - all 2 versions »

G Schmid, LF Chi - Advanced Materials, 1998 - doi.wiley.com

... size are provided with the last few ^ametallic^o, ie, mobile ... G. Schmid, LF Chi/Metal Clusters and Colloids ... 9. TEM image of an alumina membrane surface with 50 ...

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Formation of a Novel CdS Cluster in an Organic Multilayer Template: A Case of an Organic/Inorganic ... - all 2 versions »

I Ichinose, N Kimizuka, T Kunitake - The Journal of Physical Chemistry, 1995 - pubs.acs.org

... is capable of coordinating to a metal ion in ... to exert only minor effects on the layer structure ... thickness; θ , angle between incident beam and the film surface. ...

[Cited by 20](#) - [Related Articles](#) - [Web Search](#)

Recording sheets containing cationic sulfur compounds - all 2 versions »

SL Malhotra, BS Bryant - US Patent 5,314,747, 1994 - Google Patents

... with the ion valence of the metal thereof being 2 ... yalkylene) modified compounds of sorbitan esters, fatty ... ceiving sheet comprising a surface layer containing a ...

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[\[PDF\] EFFECTS OF ACIDIC DEPOSITION ON PAINTED WOOD: A REVIEW - all 2 versions »](#)

RS Williams - J. Coatings Tech., 1991 - fpl.fs.fed.us

... at the top was protected with a metal strip 55 ... the primer coat begins to show, the surface or topcoat ... The film had increased tensile strength and tensile yield ...

[Cited by 3](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

[Self-assembly of aluminium-pillared clay on a gold support - all 3 versions »](#)

P Cool, A Clearfield, V Mariagnanam, LJM Ellistrem ... - Journal of Materials Chemistry, 1997 - rsc.org

... solution containing large oligomeric hydroxy-metal cations (eg Al ... takes place on the external surface area, and ... vapours on a pillared laponite film with the ...

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[Commercial quartz crystal microbalances-theory and applications - all 3 versions »](#)

CK O'Sullivan, GG Guilbault - Biosensors and Bioelectronics, 1999 - Elsevier

... a plethora of other applications: thin film deposition control ... a QCM and studied the metal complex binding ... RNA macromolecules binding to its surface when in ...

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[Light-Directed Assembly of Nanoparticles" - all 2 versions »](#)

T Vossmeier, E Delonno, JR Heath - J. Phys. Chem, 1995 - doi.wiley.com

... the thicker film. ... Preparation of gold nanoparticles and coupling to surface amino groups. ... stabilized with dodecylamine molecules (2.6 nm metal-core diameter ...

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WJ Van Ooij, DR Boston, EJ Woo... - US Patent 5,204,219, 1993 - Google Patents

... percent weight to metal oxide solids. ... film by: 1) a 10 cmX20 cm sheet of film is placed on a ... flat surface; 2) a bead of the mixture is drawn across the ...

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KM Vaeth, KF Jensen - US Patent 5,869,135, 1999 - Google Patents

... substrate has been subjected to abrasion with a metal tool, ... s. was stamped onto the surface as described in Example 1. ... visible. Overall film thick- ...

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[Modification of sensor surfaces](#)

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... 171], and, by the incorporation of catalytic metal particles, hydrogen ... over the location and thickness of the deposited film. ... OTHER SURFACE MODIFICATIONS 161

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S Singh, DY Sasaki, J Cesarano, AJ Hurd - Thin Solid Films, 1999 - Elsevier

... to create uniform pore sizes in metal oxide thin ... molecules resulting in a rough surface following calcination ... circular pores in the silica film having diameters ...

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[Corrosion-proof transparent heater panels and preparation process thereof - all 3 versions »](#)

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... view of a third outerly connected metal tab substituting ... Outerly connected metallic fittings 13 and 13' are mounted ... 1 to a direction in its surface, the main ...
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Template-Directed Nucleation and Growth of Inorganic Materials - all 3 versions »
BR Haywood - Biomimetic Materials Chemistry, 1995 - books.google.com
... presence of a diffuse layer of metal ions beneath ... that molecular patterning of the surface is a ... growth of inorganic, organometallic, and metallic complexes has ...
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Electric recording process of images using electron sensitive layer containing trivalent cobalt
... - all 2 versions »
M Tsuboi, Y Suzuki, M Tabei... - US Patent 4,131,463, 1978 - Google Patents
... to as a chelating agent), (c) a film-forming organic ... 2 a support with at least the surface 25 being ... cobalt (III) complexes, such as alkali metal (eg, Li, Na ...
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SD Evans, TM Flynn, A Ullman, G Beamson - Surface and Interface Analysis, 1996 - doi.wiley.com
... The metal films were deposited using an Edwards ... Samples were mounted on metallic stubs using double ... microscopic level. Our studies using surface plasmon imaging ...
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SF Karel, CR Robertson - Biotechnology and Bioengineering, 1989 - doi.wiley.com
... The flow cell and electrode surface were sterilized with 5 ... 24 h each to allow diffusion into the cell layer. ... slide was placed on an ice-cooled metal tray for ...
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Infrared and Raman spectroscopic study of 1, 2-benzenedithiol adsorbed on silver - all 3 versions »
SH Cho, YJ Lee, MS Kim, K Kim - Vibrational Spectroscopy, 1996 - Elsevier
... tives have components normal to the metal surface are exclusively ... assembled on an evapo-rated silver film should be ... 1,4-BDT) adsorbed on the silver surface [15 ...
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Scanning probe microscope and molecular processing method using the scanning probe microscope - all 3 versions »
T Nakagawa... - US Patent 5,730,940, 1998 - Google Patents
... Probing the Surface Forces of Mono-layer Films covered with an oxidized film; and shows an embodiment ... probe is detached from the substance surface tion when ...
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T Nakagawa... - US Patent 5,363,697, 1994 - Google Patents
... probe microscope is an covered with an oxidized film; and shows an ... with metal by a vapor deposition process so as to reflect ... contact the surface of sample 60. ...
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R Shashidhar, B Peek, BR Ratna, JM Calvert, JM ... - US Patent 5,578,351, 1996 - Google Patents
... forming molecules within the plane of the film. ... bromide films, oxidized metal surfaces, metal surfaces, plastic ... UV radiation to obtain an anisotropic surface. ...
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Electrostatographic imaging member with anti-curl layer comprising a reaction product of a

[binder bi ... - all 2 versions »](#)

RCU Yu, AM Horgan, FJ Wieloch - US Patent 4,654,284, 1987 - Google Patents

... metallic conductive anode layer ... 3,357,989, metal phthalocyanines such as copper ... these holes through the active layer in order to discharge the surface charge on ...

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WW Limburg, DS Renfer, JF Yanus, LA Teuscher - US Patent 4,818,650, 1989 - Google Patents

... the polymeric film forming binder in the transport layer ... n g member having a substrate, a titanium metal ... having an electrically conductive surface, a charge ...

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... as a result of complexation of transition metal ions has ... The flow pattern and resulting film thickness are ... the rate of solvent evaporation, surface tension and ...

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HC Jones - Industrial & Engineering Chemistry, 1940 - pubs.acs.org

... squeezed into thin films between layers of metal foil in ... of the organic solvent adsorbed on the surface of the ... OXIDE FROV PL ECREPE-ZINC OXIDE FILM Before Extn ...

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K Kotani, T Kawakita, T Sakaya, T Kuroda - US Patent 5,766,751, 1998 - Google Patents

... the film forming property or formability of a resin composition rises an octahedral layer comprising a central metal ... to sandwich the octahedral layer ...

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G Mao, YH Tsao, M Tirrell, HT Davis, V Hessel, J ... - Langmuir, 1994 - pubs.acs.org

... in the crystalline state or in monolayer ... Three thin film techniques, namely, atomic force microscopy (AFM), surface force measurement (SFA), and ...

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... tral pattern is shown according to the manner of bond ... The sulfur-containing unsaturated compounds of for ... In order to remove hydrogen chloride from HS(CH₂CH₂SH) m R₄ ...

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T Ichino, E Sakai, Y Takei - US Patent 5,075,189, 1991 - Google Patents

... The T-type non-metallic phthalocyanines are disclosed in ... improve the plate wear, on the surface thereof may ... the dispersion is coated on the undercoat layer or ...

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[Organic photo conductive medium - all 2 versions »](#)

K Sakai, T Miyazaki, K Eguchi, H Kawada, Y Tomida, ... - US Patent 4,929,524, 1990 - Google Patents

... pound or a built-up film thereof may be any ... surface with the use of the organic conductive medium ... The reason why a conductive material such as metal can be used ...

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[Determination of the physical structure of biological materials at biosensor interfaces by ... -](#)

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... a mica surface coated with a layer of Pt ... variation of average refractive index and film thickness of ... imaging BSA molecules coated onto a plain graphite surface. ...

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RNHCOCH₂SH - [all 3 versions »](#)

SW Tam-Chang, HA Biebuyck, GM Whitesides, N Jeon, ... - Langmuir, 1995 - pubs.acs.org

... an olefin) can be problematic, and a straightforward sequence that modified an existing ... weakly bound to gold and are thus easily removed from its surface. ...

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Fractionation of sulfur isotopes and selenium between coexisting sulfide minerals from the

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... of massive sulfide ores and another layer of banded ... and other geologists of Sumitomo Metal Mining Co ... HR: Sulfur isotope partitioning in metallic sulfide systems ...

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DEVELOPMENT OF COPPER-ON-ALUMINA CATALYTIC MATERIALS FOR THE CLEANUP OF FLUE GAS AND THE DISPOSAL OF ... - [all 6 versions »](#)

G Centi - Journal of Materials Research, 1995 - mrs.org

... the sorbent-catalyst to form surface metal-sulfate species. ... through the intermediate formation of metallic copper, (ii ... form a CuAl₂O₄ spinel-like surface species ...

[Related Articles](#) - [Web Search](#)

Recent developments in the design and application of screen-printed electrochemical sensors for ... - [all 5 versions »](#)

JP Hart, SA Wring - Trends in Analytical Chemistry, 1997 - Elsevier

... A layer of uricase was deposited on the outside ... detection of gaseous ethanol using thick-film tech- nology ... prior to pass- ing ethanol vapour over the surface. ...

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S Manne, IA Aksay - Current Opinion in Solid State & Materials Science, 1997 - Elsevier

... b) Self-assembly of metallic nanoparticles on ... the nucleation of semiconductor and metal nanoparticles [Z ... wherein substrates with varying surface chemistries are ...

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M Jaschke, HJ Butt, S Manne, HE Gaub, O Hasemann, ... - Biosensors and Bioelectronics, 1996 - Elsevier

... its analytical capabilities, surfaces can be modified with the ... from the tip onto the high-energy mica surface. ... it hardened to become a stable layer of about 12 ...

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JFW Keana, MN Wybourne, SX Cai, M Yan - US Patent 5,580,697, 1996 - Google Patents

... on Polymer-Polymer and Polymer-Metal Adhesion," Polymer ... ie, organic polymers with metallic properties) such ... Functionalization of a substrate surface can occur ...

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IRRADIATION BONDING OF ACIDIC COMPOUNDS TO SHAPED POLYMERIC STRUCTURES

D Tanner - US Patent 2,999,056, 1961 - Google Patents

... If only surface effects are desired, or if the ... 5% acetic acid solution, to remove metallic ions, similar ... fiber prop -erties is obtained on metal ion treatment ...

[Cited by 5](#) - [Related Articles](#) - [Web Search](#)

Determination of atmospheric sulfur dioxide without tetrachloromercurate (II) and the mechanism of ...

PK Dasgupta, K DeCesare, JC Ullrey - Analytical Chemistry, 1980 - pubs.acs.org

... to ozone, oxides of nitrogen, and transition-metal ions and ... This paper presents a modified WG method which does ... In all cases, the organic layer was next washed ...

[Cited by 65](#) - [Related Articles](#) - [Web Search](#)

Method of forming a permselective layer - all 2 versions »

RM Mier, S Piznik, IR Lauks, G Davis - US Patent 5,212,050, 1993 - Google Patents

... METAL ... not been demonstrated or shown to be fully 20 taming an enzyme on a solid surface, drying, applying a ... and removing noncrosslinked portions of said film, ...

[Cited by 6](#) - [Related Articles](#) - [Web Search](#)

Laser induced deposition of tungsten and copper - all 4 versions »

M Meunier, R Izquierdo, M Tabbal, S Evoy, P ... - Materials Science & Engineering B, 1997 - Elsevier

... above the noise level (< 1 at.%) in the metal film. ... eg, CF₄, CO and C), were detected at the surface. ... to the metallic Au⁰ state with no apparent damage to the ...

[Cited by 6](#) - [Related Articles](#) - [Web Search](#)

[CITATION] Tin and Tin Plate

FA Lowenheim, RA Woofter, RR Hartwell - Corrosion Resistance of Metals and Alloys, 1963 - Reinhold Pub. Corp

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Non-ferrous metals/Nichteisenmetalle

RK Melekhov, FIZK Mekh, MTJP Mater - Chem. Phys, 1986 - doi.wiley.com

... on its surface of a protective film which prevents ... The properties and applications of metal hydrides are ... they enhance the reduction in the surface energy of ...

[Web Search](#)

[BOOK] Copper Plating Mercaptan Rubber-base Impression Material: A Thesis Submitted in Partial Fulfillment. ...

MN Halhoul - 1963 - University of Michigan

[Web Search](#)

Biosensors for chemical and biological agents of defence interest - all 6 versions »

BM Paddle - Biosensors and Bioelectronics, 1996 - Elsevier

... 1990) BIAcore (coated gold or silver layer on glass ... al., 1988) and the measurement of surface plasmon resonance at a liquid-metal film interface has ...

[Cited by 52](#) - [Related Articles](#) - [Web Search](#)

Photoresist composition and article containing 1, 2-quinonediazide and an organic phosphorous acid ... - all 3 versions »

H Yoshimoto, K Kobayashi... - US Patent 5,633,111, 1997 - Google Patents

... form of a salt of a metal such as alkali ... tantalum, glass/aluminum, a glass/silicon nitride film, glass/ ... Further, alcohols and surface active agents can also be ...

[Cited by 3](#) - [Related Articles](#) - [Web Search](#)

[BOOK] Physics, Chemistry and Technology of Solid State Gas Sensor Devices - all 2 versions »

A Mandelis, C Christofides - 1993 - books.google.com

... The ac Photopyroelectric Thin-Film Detector: Pd-PVDF-Al ... gas are the main means for the study of the surface-gas interaction in the metal-gas system. ...

[Cited by 75](#) - [Related Articles](#) - [Web Search](#) - [Library Search](#)

Materials and methods for the immobilization of bioactive species onto polymeric substrates - all 8 versions »

PD Drumheller... - US Patent 5,897,955, 1999 - Google Patents

... The second layer is used to enhance the ... Synthesis and nonthrombogenicity of poly-etherurethaneurea film grafted with ... migrate and cluster on the surface of a ...

[Cited by 8 - Related Articles - Web Search](#)

Conductive metallization of substrates via developing agents - all 4 versions »

WJE Parr, RE Hutton, PYY Moy, D Frank, DA Strawser - US Patent 4,997,674, 1991 - Google Patents
... was found to have been cleanly transferred to the surface of the ... where a continuous, lustrous highly conductive and well-adhered layer of metal had been ...

[Web Search](#)

Steel and related materials - all 6 versions »

TR Dulski - Analytical Chemistry, 1991 - pubs.acs.org

... citations in Chemical Abstracts and Metal Abstracts is ... By using this approach, metallic aluminum, aluminum oxide ... used to distinguish between surface carbon and ...

[Cited by 7 - Related Articles - Web Search](#)

Presensitized lithographic printing plate and method for preparing lithographic printing plate - all 3 versions »

K Takeda, S Kawakami, K Maejima, K Nakatani, S ... - US Patent 5,858,604, 1999 - Google Patents
... polyvinyl alcohol, cellophan and polystyrene; metal plates such ... element(s). A plastic film laminated or ... it is preferably subjected to surface treatments such ...

[Cited by 24 - Related Articles - Web Search](#)

Silver halide color photographic light-sensitive material and method for forming color images by ... - all 3 versions »

M Asami, N Ooshima... - US Patent 5,422,232, 1995 - Google Patents

... to light applied through a color negative film having a transparent ... aid, for example, such as a metal salt of ... three dimensional surface roughness measuring ma- ...

[Cited by 6 - Related Articles - Web Search](#)

Topological construction of mesoporous materials - all 2 versions »

D Zhao, Y Peidong, H Qisheng, C Bradley F, S Galen ... - Current Opinion in Solid State & Materials Science, 1998 - Elsevier

... mesostructures [36",37,38] and mesoporous metallic Pt [39 ... space group and a high BET surface area (-1500 ... been found for the early transition metal oxides by ...

[Cited by 60 - Related Articles - Web Search](#)

Catalyst and metal ferrites for reduction of hydrogen sulfide emissions from automobile exhaust - all 2 versions »

JS Rieck, W Suarez, JE Kubsh - US Patent 4,916,105, 1990 - Google Patents

... is an object of this invention to chemically modify the auto ... additive also is able to form a stable surface sulfide ... Noble metal-containing-CeO₂/La₂O₃/Al₂O₃ ...

[Cited by 3 - Related Articles - Web Search](#)

Partial combustion process and a catalyst structure for use in the process - all 2 versions »

RA Dalla Betta, T Shoji, K Tsurumi, N Ezawa - US Patent 5,326,253, 1994 - Google Patents

... support may be metallic or ceramic ... less active palladium metal as the temperature rises 55 strates has ... surface to limit the rate at which the fuel diffuses to ...

[Cited by 13 - Related Articles - Web Search](#)

[BOOK] Protective Metallic Coatings at Elevated Temperatures

R Parkman - 1949 - Stanford University

[Related Articles - Web Search - Library Search](#)

PREPARATION OF ALUMINA-SUPPORTED CATALYST COMPOSITIONS AND THE PRODUCTS THEREOF

H Talsma - US Patent 3,397,154, 1968 - Google Patents

... 3. All four supports have a similar surface area of ... interior corresponding in size to the original metal particle. ... contains from 2 to 5% of metallic aluminum ...

[Cited by 16 - Related Articles - Web Search](#)

STATIC SECONDARY ION MASS SPECTROMETRY (S-SIMS) PART 2: MATERIAL

SCIENCE APPLICATIONS - all 2 versions »

XII APPLICATIONS - Mass Spectrometry Reviews, 1999 - doi.wiley.com

... c groups improves the binding between metallic layers and ... Polymer coating of metal implants can be applied ... Plasma surface treatment has been applied for almost ...

[Related Articles](#) - [Web Search](#)

Method of manufacturing a plurality of uniform microfabricated sensing devices having an immobilized ... - all 3 versions »

SN Cozzette, G Davis, J Itak, IR Lauks, RM Mier, S ... - US Patent 5,063,081, 1991 - Google Patents

... However, no aspect of thin-film processing is described ... The combination of a layer containing the enzyme urease ... state, is then mounted onto the surface of an ...

[Cited by 113](#) - [Related Articles](#) - [Web Search](#)

Perfluorocyclobutane ring-containing polymers - all 4 versions »

DA Babb, WF Richey, KS Clement, BR Ezzell - US Patent 5,159,038, 1992 - Google Patents

... unstable than when said groups are attached, for instance to oxygen or sulfur. ... bromine or iodine may be eliminated, for instance, using metallic reactants as ...

[Cited by 38](#) - [Related Articles](#) - [Web Search](#)

Sensitivity and selectivity of ion channel biosensor membranes - all 2 versions »

PDJ Osman, BA Cornell, B Raguse, LG King ... - US Patent 5,234,566, 1993 - Google Patents

... A monomers, in which each monomer is in a different layer. ... can be laid down as a secondary film in series ... If the lipid is directly coating a metal surface ...

[Cited by 10](#) - [Related Articles](#) - [Web Search](#)

Scanning Tunneling Microscopy and Atomic Force Microscopy in Organic Chemistry - all 2 versions »

J Frommer - Angewandte Chemie International Edition in English, 1992 - doi.wiley.com

... this process disrupts the assembled film reversibly or ... 7.3), layer-by-layer etching of metal chalcogenide surfaces ... of states over specific sites in the surface. ...

[Cited by 92](#) - [Related Articles](#) - [Web Search](#)

Synthesis and applications of supramolecular-templated mesoporous materials - all 2 versions »

JY Ying, CP Mehnerl, MS Wong ... - Angew Chem Int Ed, 1999 - doi.wiley.com

... acteristics: uniform pore sizes greater than 20 Å, surface areas in ... Silicate Layer Puckering Instead of the formation of silicate-covered micellar ... metal cation ...

[Cited by 620](#) - [Related Articles](#) - [Web Search](#)

Positive-working light-sensitive composition containing diazonium salt and novolak resin - all 3 versions »

S Kondo, M Tsuchiya, S Ishige, T Sugiyama, T Inno, ... - US Patent 5,370,965, 1994 - Google Patents

... area of the light-sensitive layer formed from ... sition is applied onto the surface of a ... as a polyethylene, polypropylene or polystyrene film, metal plates such ...

[Cited by 2](#) - [Related Articles](#) - [Web Search](#)

Microcapsule containing photo-oxidizing agent and leuco dye - all 2 versions »

S Washizu, J Yamaguchi, F Shinozaki, A Shimomura, T ... - US Patent 4,962,009, 1990 - Google Patents

... when applied to a photographic film, paper or ... droplets, and protective colloids and surface active agents to ... as described above, a recording layer excellent in ...

[Cited by 3](#) - [Related Articles](#) - [Web Search](#)

[BOOK] Vibrational Spectroscopy on Intermolecular Interactions in Solutions and at Interfaces - all 6 versions »

JWM Nissink - 1999 - library.uu.nl

... at the outer surface of the layer (ch. ... field resulting from reflection at the air-metal interface. At the surface, the electric field intensity for p-polarised ...

[Related Articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#)

Structure and Moisture Permeability of Film-Forming Polymers

PW Morgan - Industrial & Engineering Chemistry, 1953 - [pubs.acs.org](#)

... Metal foils, which are highly crystalline substances, are almost ... When the surface of the film was firm, the ... by solution at one face of the film and evaporation ...

[Cited by 8](#) - [Related Articles](#) - [Web Search](#)

[Coated substrates employing oriented layers of mutant heme proteins and methods of making and using ... - all 4 versions »](#)

JM Olinger, SG Sligar, MA McLean, PW Bohn, P ... - US Patent 5,466,589, 1995 - [Google Patents](#)

... inorganic materials such as siliceous materials and metal oxides. ... between the markers and the substrate surface in the same layer is substantially the same ...

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Did you mean to search for: (metal OR metallic) AND (surface OR film OR layer) AND (modify OR modifying OR modification OR modified OR *modified* OR change OR changed OR changes OR changing OR remove OR removed OR removing OR ablating OR ablation) AND ("SAM" OR self-assemble OR self-assembly OR self-assembling) AND (sulfur OR thiol) AND (pattern OR patterning) AND (dip OR dipped OR dipping OR immerse OR immersed OR immersing OR immersion)

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[S Clark](#)

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[first results on nanofabrication and phthalocyanine polymers](#)

C DEKKER, SJ TANS, LJ GEERLIGS, A BEZRYADIN, J WU, ... - Atomic and Molecular Wires, 1997 - books.google.com

... use "conventional" electron-beam nanofabrication of metal electrodes to ... a low-stress 60 nm SiN film on a ... diffusion-limited supply of material at the surface. ...

[Related Articles](#) - [Web Search](#)

[The Modifications of the Carbide, Fe₂C; Their Properties and Identification](#)

LJE Hofer, EM Cohn, WC Peebles - Journal of the American Chemical Society, 1949 - pubs.acs.org
... and insulated on the outside with a layer of asbestos ... reached, the heating is stopped, and the sample is ... After eighty-two hours, the change in weight was ...

[Cited by 14](#) - [Related Articles](#) - [Web Search](#)

[Initiation and bonding of diamond and other thin films - all 2 versions »](#)

RM Bension, LK Truesdale - US Patent 5,455,072, 1995 - Google Patents

... coatings, especially those with a crystalline, metallic, or alloy ... the 1-position will present a surface with a ... the chain end with sodium metal and thioacetic ...

[Cited by 17](#) - [Related Articles](#) - [Web Search](#)

[... of heating during development after image exposure with a conductive layer containing carbon black - all 2 versions »](#)

H Ozaki, H Naito, S Sawada - US Patent 5,047,310, 1991 - Google Patents

... desired that the volume resistance of dry film ranges from ... forming latent image mainly on the surface of silver ... Organic metal oxidizing agents are believed to ...

[Related Articles](#) - [Web Search](#)

[Organophosphorus enamines useful as epoxy curatives and adhesion promoters - all 5 versions »](#)

MD Johnson, MS Chattha - US Patent 4,550,201, 1985 - Google Patents

... Glass to metal bonds are then prepared and tested as ... DETA and no treatment of the 15 glass surface, line B ... The layers are separated and the aqueous layer 65 is ...

[Cited by 1](#) - [Related Articles](#) - [Web Search](#)

[Methods for fabricating shapes by use of organometallic, ceramic precursor binders - all 7 versions »](#)

JW Hinton, A Lukacs III, JA Jensen, MS Newkirk, MK ... - US Patent 5,433,261, 1995 - Google Patents

... 1,3,5,7-tetrametallic ceramic precursors ... excellent filler material surface wetting and (2) the binder 45 to ... as a mold for metal casting in accordance with the ...

[Cited by 5](#) - [Related Articles](#) - [Web Search](#)

[Photographic element with microvoided sheet of opalescent appearance - all 2 versions »](#)

TS Gula, PT Aylward, RP Bourdelais, DN Haydock - US Patent 5,888,681, 1999 - Google Patents

... and reflect creating the opalescent, metallic properties ... sheets could be formed with surface layers that ... polyamines and stannous salts; noble metal compounds, eg ...

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Magnetic resist printing process, composition and apparatus - all 3 versions »

GR Nacci, DG Pye... - US Patent 4,338,391, 1982 - Google Patents

... mounted one above the other in a metallic frame, 13 ... chemically mill double-sided patterns or shapes on metal. ... hole-free) resist image on the substrate surface. ...

[Cited by 7](#) - [Related Articles](#) - [Web Search](#)

Photographic silver halide light-sensitive material - all 2 versions »

S Ichijima, K Mihayashi, I Itoh... - US Patent 4,522,917, 1985 - Google Patents

... oZ9 varies with changes in concentration. ... which is used to stabilize the image, and a film-removing bath which is used to remove the backing layer of the ...

[Cited by 5](#) - [Related Articles](#) - [Web Search](#)

Heat-developable light-sensitive material with base precursor - all 2 versions »

H Hirai, K Sato... - US Patent 4,622,289, 1986 - Google Patents

... alkali metal ion or an alkaline earth metal ion are ... For this purpose, the surface active agents illustrated in ... invention can be introduced into a layer of the ...

[Cited by 3](#) - [Related Articles](#) - [Web Search](#)

Thermally developable light-sensitive material - all 2 versions »

S Ikenoue, T Masuda, Y Iwata... - US Patent 4,039,334, 1977 - Google Patents

... A pre-ferred amount of the metal containing compound ranges ... materials in the presence of a surface active agent ... comprising an organic silver salt layer with a ...

[Cited by 4](#) - [Related Articles](#) - [Web Search](#)

Organic vehicle for electronic composition - all 4 versions »

L Wilczek, JW O'Neil... - US Patent 5,397,383, 1995 - Google Patents

... the removal of surface oxides which may form on the surface of metals. ... metal alloy solders may also be used, such as alloys of ... The amount of metallic inorganic ...

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[CITATION] REGIONAL HYDROGEOCHEMICAL PATTERNS IN GROUND WATER OF NORTHWESTERN OHIO AND THEIR RELATION TO ...

EH CARLSON - Geochemical Exploration 1982, 1984 - Elsevier Publishing Company

[Related Articles](#) - [Web Search](#)

Silver halide color photographic material - all 6 versions »

K Sakanoue, M Yagihara, S Ichijima, K Nagao... - US Patent 4,500,634, 1985 - Google Patents

... densities (an input signal-output film density transformation ... ener and surface active agent were incorporated ... restrainer in the silver halide emulsion layer. ...

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[CITATION] THERMODYNAMIC PROPERTIES OF REFRACTORY TRANSITION METAL COMPOUNDS* Larry Kaufman and Harold ...

CT AB STRA - Anisotropy in Single-Crystal Refractory Compounds: ..., 1968 - Plenum Press

[Related Articles](#) - [Web Search](#)

Process for producing heat developable light-sensitive compositions and elements - all 2 versions »

S Ikenoue, T Masuda... - US Patent 4,213,784, 1980 - Google Patents

... both of Asaka, Japan [73] Assignee: Fuji Photo Film Co., Ltd ... to mix the materials in the presence of a surface active agent ... (2) Halogen containing metal complexes ...

[Cited by 4](#) - [Related Articles](#) - [Web Search](#)

Wholly microfabricated biosensors and process for the manufacture and use thereof - all 4 versions »

SN Cozzette, G Davis, JA Itak, IR Lauks, RM Mier, ... - US Patent 5,200,051, 1993 - Google Patents

... Matsuoka, M. et al., Plating & Surface Finishing, 1988, 75, 102-106. ... FIG. 16a metal FIG. 16b NPR -I- Enzyme ... ods which may include the thin-film and photoresist ...

[Cited by 15](#) - [Related Articles](#) - [Web Search](#) - [Library Search](#)

Ordered mesoporous materials - all 3 versions »

U Ciesla, F Schüth - Microporous and Mesoporous Materials, 1999 - Elsevier

... by self-assembly of the metal alkoxide-amine ... mesoporous silica with pores parallel to the film surface. ... area growth of mesoporous thin film silica could be ...

[Cited by 282](#) - [Related Articles](#) - [Web Search](#)

... , Ontario: An Example of Melting and Mobilization of a Precious Metal-Sulfosalt Assemblage during ... - all 2 versions »

AG Tomkins, DRM Pattison, E Zaleski - Economic Geology, 1963 - SecG

... a sulfosalt is a mineral with metal(s), metalloid(s) ... between melting of sulfosalts and metallic sul- fides ... layers occur on either side, this layer would typically ...

[Cited by 7](#) - [Related Articles](#) - [Web Search](#)

Heat-developable color photographic materials with base precursor - all 2 versions »

H Hirai, K Kawata... - US Patent 4,499,180, 1985 - Google Patents

... Kanagawa, Japan [73] Assignee: Fuji Photo Film Co., Ltd ... purpose, the surface active agents illustrated in other ... glass, paper, metal or analogues thereto may be ...

[Cited by 7](#) - [Related Articles](#) - [Web Search](#)

Direct Observation of Alkali Vapor Release during Biomass Combustion and Gasification. 1.

... - all 8 versions »

DC Dayton, RJ French, TA Milne - Energy & Fuels, 1995 - pubs.acs.org

... for coal combustion may need to be modified for biomass ... A. F. Factors Governing the Surface Enrichment of Fly ... reactor used to study alkali metal release during ...

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[CITATION] ngHT mim

LM Industry - Light Metal Age, 1958 - Roy Fellom

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Silver halide photographic light-sensitive material - all 3 versions »

N Matsunaga... - US Patent 5,766,835, 1998 - Google Patents

... represents a hydrogen atom, an alkali metal, or an ... be carried out at any stage subsequent to the production of a support (film), the surface treatment (an ...

[Cited by 5](#) - [Related Articles](#) - [Web Search](#)

Photographic element containing water-absorbing compound - all 2 versions »

T Aono, K Nakamura, T Shibata... - US Patent 5,085,980, 1992 - Google Patents

... cles such as metallic fine powder, carbon black, graph- ... dye-fixing material exists on the surface of the ... material such as graphite, carbon black, metal, or the ...

[Cited by 1](#) - [Related Articles](#) - [Web Search](#)

Heat developement dye-transfer process using crosslinked binders with dye mordants - all 2 versions »

T Aono, K Nakamura, T Shibata, T Nakamura... - US Patent 4,636,455, 1987 - Google Patents

... which are pro- vided on the same surface of the ... these cross-linking agents, such as alkali metal bisul- lar ... of the coating aptitude and the film strength, the ...

[Cited by 6](#) - [Related Articles](#) - [Web Search](#)

Heat exchange apparatus for effecting heat exchange in plurality of gases, heat exchange element for ... - all 2 versions »

N Saito, J Tamura, S Take, M Kurosawa, I Terada... - US Patent 4,911,227, 1990 - Google Patents

... metal silicate (such as sodium silicate) with a filler se- ... The surface of the honeycomb structure can ... nally cross each other to form a four-layer honeycomb ...

[Web Search](#)

Silver halide color photographic material containing monodispersed tabular silver halide grains - all 2 versions »

K Goda... - US Patent 4,775,617, 1988 - Google Patents

... such as glass, ceramic, metal, etc., usually used ... surface active agents, fluorescent

whitening agents, 10 sulfur ... On a triacetate film support were coated the ...

[Cited by 8](#) - [Related Articles](#) - [Web Search](#)

Heat development of silver halide element with redox dye releaser and stabilizer - all 2 versions »

Y Sakaguchi, T Aono, S Fujita... - US Patent 4,536,467, 1985 - Google Patents

... changing the conventional wet development process ... No. [^] a change in maximum density of light-sensitive ... image receiving layer has been proposed. However, the ...

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[CITATION] Corrosion Inhibition on Steel Tubes in Low-Pressure Steam Boilers

WA KEILBAUGH, FJ POCOOCK - Transactions, 1968 - The Society

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[BOOK] Science and Applications of Conducting Polymers

WR Salaneck, DT Clark, EJ Samuelsen - 1991 - books.google.com

... An example might use lithium metal as the counter ... for /JGxEg; dashed curve: heavily doped polymer (metallic). ... where s denotes the actual surface area occupied ...

[Cited by 92](#) - [Related Articles](#) - [Web Search](#) - [Library Search](#)

High-temperature sulfidation-regeneration of copper (II) oxide-alumina sorbents

V Patrick, GR Gavalas, M Flytzani-Stephanopoulos, ... - Industrial & Engineering Chemistry Research, 1989 - pubs.acs.org

... retardation of copper reduction to the metallic form engendered by ... This metal stub was then coated with a ... Furthermore, both the high BET surface areas measured ...

[Cited by 1](#) - [Related Articles](#) - [Web Search](#)

Electrically conductive organic polymeric material and process for production thereof - all 2 versions »

S Yata - US Patent 4,601,849, 1986 - Google Patents

... ible substrate can be contacted with an alkali metal- ... or a non-metallic element oxide, the substrate can be ... then doping only a part of that surface with the ...

[Cited by 5](#) - [Related Articles](#) - [Web Search](#)

Lithographic printing plates having a radiation-sensitive layer comprising a photocrosslinkable

... - all 2 versions »

JE Mitchell, PR West, PR Josephson Jr - US Patent 5,141,839, 1992 - Google Patents

... in turn transfers the ink to the surface of the ... is utilized to prepare an image-forming layer of a ... 8 Z represents the non-metallic atoms necessary to complete ...

[Related Articles](#) - [Web Search](#)

Passivating heavy metals in carbo-metallic oil conversion - all 3 versions »

WP Hettinger Jr... - US Patent 4,454,025, 1984 - Google Patents

... These heavy met- als tend to deposit near the surface of the catalyst ... Spinel 60 of binary metallic oxides may then form at the additive metal to heavy ...

[Cited by 3](#) - [Related Articles](#) - [Web Search](#)

A new class of thiolipids for the attachment of lipid bilayers on gold surfaces - all 3 versions »

H Lang, C Duschl, H Vogel - Langmuir, 1994 - pubs.acs.org

... by means of a Langmuir film balance combined ... measurements, cyclic voltammetry, and surface plasmon resonance ... Thin-layer chromatography (TLC) was carried out on ...

[Cited by 105](#) - [Related Articles](#) - [Web Search](#)

Cellulosic article containing an olefinic oxide polymer and method of manufacture - all 5 versions »

J Markulin - US Patent 5,358,765, 1994 - Google Patents

... tubular film casing of specific wall thickness and diame- ... and cover the surface of the frankfurter. ... about 70,000. certain transition metal ions. ...

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Process for preparing biologically compatible polymers and their use in medical devices - all 4 versions »

NA Plate, LI Valuev, LD Uzhinova, VA Sinani - US Patent 5,945,457, 1999 - Google Patents
... this problem has been to chemically modify the polymer ... of heparin 45 on a polymer surface has been ... One method employs modification of a surface, such as an ...

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Rotary shadowing with platinum-carbon in biological electron microscopy: A review of methods and ...

DE Chandler - Journal of Electron Microscopy Technique, 1986 - doi.wiley.com
... to coat surface structures with a uniform film of metal on ... Uniform deposition of metal on all sides of an ... and extracellularly accumulate on the surface of the ...

[Cited by 1](#) - [Related Articles](#) - [Web Search](#)

Corrosion in the Oil Industry - all 6 versions »

D Brondel, F Montrouge, R Edwards, A Hayman, F ... - Journal of Petroleum Technology, 1987 - slb.com
... as a catalyst accelerating the dissolution of metal [M +]. This ... itation of FeS directly onto the steel surface. ... of turbulence, so that the scale film is left ...

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Use of electrochemical techniques to study the Langmuir-Blodgett films of redox active materials - all 8 versions »

LM Goldenberg - Russian Chemical Reviews, 1997 - iurpion.org
... materials such as ferrocenes, metal bipyridine complexes ... prepared films showed the metallic conductivity \pm temperature ... the increase of surface pressure used ...

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JH Zumberge, CA Nelson - 1972 - John Wiley & Sons

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Method for inhibiting discoloration on cellulose food casings - all 2 versions »

MD Nicholson, HS Chiu - US Patent 4,511,613, 1985 - Google Patents
... sulate the metallic contaminant particles, thus prevent- 60 weight ... reduction-oxidation reaction of the metal with the ... be applied to the internal surface of the ...

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[BOOK] Handbook of Aluminum Bonding Technology and Data - all 3 versions »

JD Minford - 1993 - books.google.com

... state) could be considered practical metallic-type adhesives. ... or "as received" aluminum oxide surface is converted ... The extent of metal bonding was extended to ...

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RP Andres, RS Averback, WL Brown, LE Bras, A ... - J. Mater. Res, 1989 - mrs.org
... only landing species and building a film from these ... Surface stabilization also offers the possibility of ... small ($n < 30$) monodisperse metal and semiconductor ...

[Related Articles](#) - [Web Search](#)

Photothermal Beam Deflection and Photoaction Spectroscopic Study of CdS Photoelectrodes in ... - all 6 versions »

RE Wagner, A Mandelis - Applied Spectroscopy, 1989 - ingentaconnect.com
... the electrolyte with the semiconductor, and an insulated metal ohmic contact ... an electrode with an optically thin surface- damage layer, the absorption ...

[Web Search](#)

Low acidity Y zeolite - all 3 versions »

KZ Steigleder - US Patent 5,190,903, 1993 - Google Patents

... of the carrier material such as shape and surface ... two or more different modification techniques could be ... Impregnation of the metal hydrogenation component into ...

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Fundamental studies of microscopic wetting on organic surfaces. 1. Formation and structural ... - all 2 versions »

RG Nuzzo, LH Dubois, DL Allara - Journal of the American Chemical Society, 1990 - [pubs.acs.org](#)
... clear that a necessary outcome of film disorder is ... qualitatively predictive of the type of surface phase formed. ... depends, in part, upon the layer thickness, and ...

[Cited by 332](#) - [Related Articles](#) - [Web Search](#)

Photographic element with indicia on oriented polymer back sheet - all 5 versions »

RP Bourdelais, DN Haydock, TS Gula, PT Aylward - US Patent 6,007,665, 1999 - [Google Patents](#)
... including solid or hollow glass spheres, metal or ceramic ... as having preferably at least one layer, may also be ... sheets could be formed with surface layers that ...

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[CITATION] ... diagrams of these sections illustrate the repeated and appreciable changes in plant cover. For ...

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HO Finklea - Electroanalytical Chemistry: A Series of Advances, 1996 - [books.google.com](#)
... eg, COOH), which tend to adsorb to metal oxides [145, 153 ... of the polar groups with a surface oxide layer. ... The surface film adheres to the STM tungsten tip after ...

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REVERSE OSMOSIS SEPARATIONS USING A TREATED POLYAMIDE MEMBRANE

US Patent 3,551,331, 1970 - [Google Patents](#)
... periph- 30 ery of the membrane and against the metal. ... not shown) mounted adjacent to the test film inside the ... fiber-forming and has a non-tacky surface at room ...

[Cited by 8](#) - [Related Articles](#) - [Web Search](#)

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JT McDevitt, SG Haupt, CE Jones - Electroanalytical Chemistry: A Series of Advances, 1996 - [books.google.com](#)

... an organic molecular system containing no metallic elements in ... atwo-electron transfer at the surface of a ... Eventually, the metal layer reaches a thickness that ...

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[BOOK] Trace Elemental Analysis of Metals: Methods and Techniques - all 3 versions »

TR Dulski - 1999 - [books.google.com](#)

... are often associated with compounds and metallic phases in ... ray fluorescence, or looking at surface quadrants by ... in the manufacture of a metal commodity these ...

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Invited article Liquid crystal templating of porous materials - all 3 versions »

ME RAIMONDI - Liquid Crystals, 1999 - [informaworld.com](#)

... More recently, the addition of key metallic or molecular ... framework, and the synthesis of various other transition metal oxide ... density, and surface properties. ...

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Large pore catalysts for heavy hydrocarbon conversion - all 7 versions »

WP Hettinger Jr, JE Lewis... - US Patent 4,624,773, 1986 - [Google Patents](#)

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Light-sensitive silver halide color photographic material having improved cyan image density - all 2 versions »

S Tanaka, H Sato - US Patent 5,227,282, 1993 - Google Patents

... In the formula, ZMrepresents a group ofnon-metallic atoms necessary for formation of a ... colloid layer). ... various compounds which change the spectral absorp- ...

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Catalyst useful for methanation and preparation thereof - all 3 versions »

JK Pargeter, UMU Ahmad - US Patent 4,196,100, 1980 - Google Patents

... various metals or metal compounds, ... lb/ft 3), a surface area of about 0.05 mVg and a pore ... able characteristics, hence, if the nickel layer is re- ...

[Web Search](#)

PHOTOELECTROCHEMICAL DEVICES UTILIZING MOLECULE-BASED EXCITED STATE REACTIONS AT COATED POLYMER ...

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... as an acceptor by coordinating to the metal complex rather than by physical diffusion into the polymer film. ... MV+) formed electrochemically on the surface of an ...

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Process for preparation of lead compounds - all 4 versions »

Y Sugahara, H Naito, M Saito, T Mori, T Honma - US Patent 4,324,768, 1982 - Google Patents

... surface state can be kept for a long time if metallic ... granules having fresh metal surfaces are completely ... medium with metallic lead granules under mutual fric- ...

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J Yamanouchi, H Watanabe, K Ishigaki, S Yamamoto, K ... - US Patent 5,804,357, 1998 - Google Patents

... posed a method in which a film for plate ... a salt concentration, the hydrophilic colloidal layer is not ... sensitive material comprising, on the same surface of a ...

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... pore struc- 55 oxygen present, surface area, and ... nation with irreducible metal oxides such as oxides of ... serve to stabilize the metallic catalyst phase against ...

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G Xue - Progress in Polymer Science, 1997 - Elsevier

... 5. FT surface-enhanced Raman scattering (SERS ... IR spectrum of the same material, this spectrum being run as a thin film cast from ... change the instrument lineshape ...

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Polystyrene-Bound Ethylene Diamine (PS-EDA) Chloromethylated polystyrene was synthesized. 10 A so - all 2 versions »

S Layers - Polymeric Materials Encyclopedia, 1996 - books.google.com

... of the EC layer with a great inner surface. ... of> 0.1 is desirable), • be free of metallic elements such ... In addition, the total metal ion concentration in the ...

[Related Articles - Web Search](#)

[BOOK] [Laser Induced Damage in Optical Materials: 1984 - all 4 versions »](#)

HE Bennett, AH Guenther, D Milam, BE Newman - 1986 - [books.google.com](#)

... In addition, surface-potential measurements were explored as an ... microscopy for analysis of metal surfaces to ... over Brewster-angle thin-film polarizers were low ...

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... of the EC layer with a great inner surface. ... of > 0.1 is desirable), • be free of metallic elements such ... In addition, the total metal ion concentration in the ...

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G Patterson - [Analytical Chemistry, 1955 - pubs.acs.org](#)

... into water in a modification of the sulfur dioxide autometer ... weight change of 2.5 grams is measurable. ... beam by using the repul- sion between a metal plate on ...

[Related Articles - Web Search](#)

[Amorphous tetrafluoroethylene-hexafluoropropylene copolymers - all 8 versions »](#)

C Anlick, VA Petrov, BE Smart, CW Stewart, RC ... - [US Patent 5,637,663, 1997 - Google Patents](#)

... of physical forms, including film or paper, foil, sheet ... pans, trays, vessels, and the like; metal sheets and ... surface energy (and hence poor wetting by water or ...

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HR Ritzma - 1981 - [ds.uhuc.utah.edu](#)

... redeposited in irregularities in the surface of erosion ... phenomena of alteration and color changes and relations ... and uranium and other metal mineralization are ...

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[Cited by 26 - Related Articles - Web Search](#)

[Novel compounds for detecting the presence of hydrolytic analytes in a test sample - all 3 versions »](#)

PF Corey - [US Patent 4,704,460, 1987 - Google Patents](#)

... ence of excess alkali metal bicarbonate such as NaH ... the 1602 cm⁻¹ band of polystyrene film was used ... were separated and the chilled aqueous layer 45 acidified ...

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ON Carlson, P Chioffi, G Murphy, D Peterson, BA ... - [Proceedings, 1956 - United Nations](#)

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N Yoshimi, M Yamashita, T Watanabe - [US Patent 5,387,473, 1995 - Google Patents](#)

... of (1) to (13) above, wherein the black dye is a mixture of an metal complex of ... mg/2, in terms of metallic chromium. ... sion that may grow from any surface defect ...

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CC Petropoulos - US Patent 4,086,210, 1978 - Google Patents

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... was obtained as a film on the surface of the ... dilute solutions and a ratio of metal halide to ... This metallic regime is achieved in unsubstituted poly(thiophene ...

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... ground-glass joint, (7) inert material layer, (8) insulator ... support for the pyrolyzed sample (film) of a ... the influence exerted by the metal surface on pyrolysis ...

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SL Lambert - US Patent 5,139,648, 1992 - Google Patents

... through the dealumina- 45 tion or modification of zeolitic ... normally character -ized by a surface area between ... a low level of alkali metal components, primarily ...

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... exaggeration; depths are given relative to the surface. ... sequence of the Nisku Formation (modified from Anderson and ... of pyrite and other metal sulfides during ...

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E Nordlander, SC Lee, W Cen, ZY Wu, CR Natoli, A ... - Journal of the American Chemical Society, 1993 - pubs.acs.org

... the most recently characterized iron-sulfur cluster type ... 2 or with other exogenous metal ions to ... be synthesized by the methods of self-assembly and fragment (1 ...

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... porosity glasses with various boron contents on the surface. ... Separation of metal ions using in-situ complexation ... the solute alkyl chain into the bonded layer. ...

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... aheavy metal ion, P is 0 or 1, m is 2-5 ... cm- 1 band of polystyrene film was used as an external ... layers were separated and the chilled aqueous layer acidified to ...

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... is usually an aqueous dispersion of a film forming, synthetic ... mineral acid attached to the metal (as well ... XIV 100.0 Pluronic F-108 (surface-active) (reaction ...

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... and Control of Microbial Spoilage of Metal-Working Fluids ... tests for stress corrosion cracking of metallic materials. ... occur when the rate of change of with ...

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AH Schroeder, TY Ching, S Suzuki, K Katsumoto - US Patent 4,900,458, 1990 - Google Patents

... metallic surfaces of industrial equipment, the inhibitors ... polyamine may be contacted with the metal to be ... be combined with a solvent and a surface-active agent ...

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... modification. ... Thus, I have just touched the surface of geophysics for non-hydrocarbon uses ... for minerals for paint and decoration, stone for tools, metal ore for ...

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... for modifying a textile formed from shaped condensation ... wto the fabrfc surface at 7g o R in a 5Q ... Mrad) per 35 packaged in 5 mil polyethylene film packets and ...

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... forming and has a 65 non-tacky surface at room ... fabric with a variety of positively charged metallic ions. ... with either maleic or acrylic acid plus metal ion are ...

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... exposure of the twin plane in the surface of the ... method is one of the typical

noble-metal sensitizing methods ... TV use, color paper, color positive film and color ...

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... they are over- lain by a thin layer of clay ... investigate the primary origin of the metal con- centrations ... the spatial distribution of the metallic ore- forming ...

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... represent a group of non-metal atoms necessary to ... represent a group of non-metallic atoms necessary ... of gelatin Amount Surface gelatin Amount Surface gelatin (g ...

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(metal OR metallic) AND (surface OI

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... these are used, at least in modified form, in ... Although this complicates the sampling problem, substantial ... sample is pumped through activated carbon to remove ...

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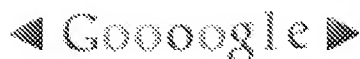
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(metal OR metallic) AND (surface O

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